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**Patentanmeldung Nr. Patent application No. Demande de brevet n°**

03026786.8

**PRIORITY  
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Bezeichnung der Erfindung/Title of the invention/Titre de l'invention:  
(Falls die Bezeichnung der Erfindung nicht angegeben ist, siehe Beschreibung.  
If no title is shown please refer to the description.  
Si aucun titre n'est indiqué se referer à la description.)

Additional information for voice group call service

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T-Mobile Deutschland

5           **Additional Information for Voice Group Call Service**

**Brief description**

The Additional Information for Voice Group Call Service (VGCS) is designed to provide all active members of a VGCS in  
10 parallel to the voice group call (VGC) with additional information (e.g. tactical addresses of the current talker). The information contained here may have a text-oriented or binary-oriented character.

The transmission of the additional information shall be realised only in acknowledged mode and is sent on the Slow Associated Control Channel (SACCH), which represents an associated control channel for the traffic channel of the voice  
15 group call.

20   **1. Proposed Implementation**

The MSC triggers via an appropriate message (e.g. additional-information-request-message) on the A-interface the BSS to send the additional information. This message contains at least the additional information itself. The VGC-ID or VGC-  
25 Reference represents an optional part of this message. In the case where this message is sent on the controlling SCCP-connection of the VGC the addressing which VGC is meant is not necessary.

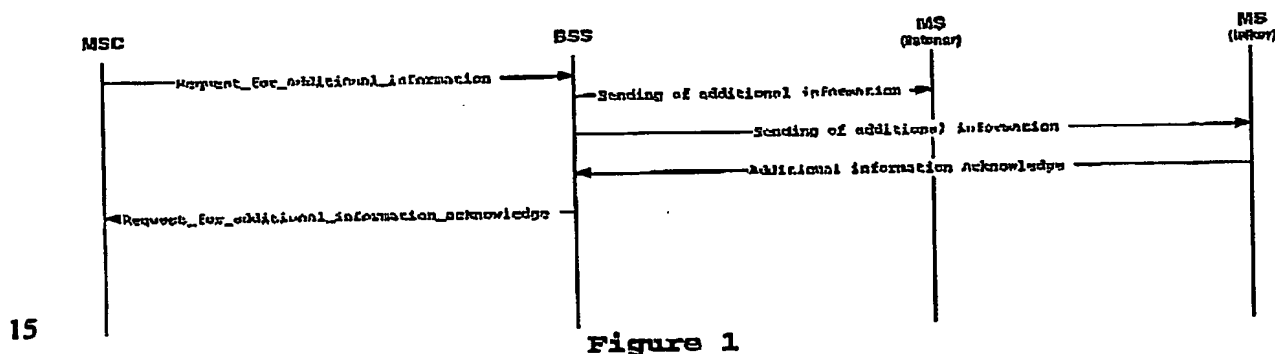
In addition to this the additional-information-request-  
30 message can be sent on the resource controlling SCCP-connections.

After that the BSS sends the information on the SACCH of all TCHs where the VGC is ongoing. The provisioning of the addi-

tional information in cells which are belonging the VGC-area but a VGC-channel is not established is not necessary.

- In the case that the additional information is sent on the controlling SCCP-connection, the BSS is responsible to sent the additional information on all SACCHs for this VGC. After having done the BSS provides an information to the MSC that the additional information was sent to the MSs. This information does not confirm that the members of a voice group call has received the message itself.
- 10 In order to give an indication that the additional information is at least received by the current talker, he may send the acknowledgement on the Uplink-SACCH for this VGC.

## 2. Signalling



## 3. Abbreviations

20	BSS	Base Station Subsystem
	MS	Mobile Station
	MSC	Mobile Switching Centre
	SACCH	Slow Associated Control Channel
	SCCP	Signalling Connection Control Part
25	TCH	Traffic Channel
	VGC	Voice Group Call
	VGCS	Voice Group Call Service

## Patent claims

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1. Method for providing the active members of a Voice Call Group Service with additional informations characterised by that the messages are transmitted on the associated control channel for the traffic channel of the voice group.

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2. System for providing members of a Voice Call Group Service with additional informations characterised by signal processing units for speech transmitting purposes in combination with signals processing units for dedicated text-and/or  
15 binary signal transmission.

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